



STEM Careers

Civil Engineer

Job Description: Civil engineers design things such as roads, buildings, airports, tunnels, dams, bridges, or water supply and sewage systems. They also oversee construction and maintenance of these structures. This includes architectural, structural, traffic, ocean and geotechnical engineers.

What do Civil Engineers do?

- Analyze maps, drawings, blueprints, aerial photographs, and other geological data to plan projects.
- Conduct studies of traffic patterns or environmental conditions to identify engineering problems.
- Estimate quantities and cost of materials, equipment, or labor for projects.
- Coordinate and oversee engineering project activities.
- Draw detailed plans or maps to scale.
- Prepare and present public reports on topics dealing with engineering projects.
- Provide technical advice about design, construction, or modifications to project managers.

Your Interests:

- Are you good at math?
- Is your work detailed?
- Do you like to solve problems?
- Are you interested in how things work?
- Do you like working with computers?

Outlook: **Bright**

Average Salary - \$36.82 hourly, \$76,590 annually

Projected Job Openings - 114,600 over the next 10 years

Education/Program of Study:

- Minimum Bachelor's Degree in Engineering
- To do research a Ph.D. is recommended

Sources:

O*NET Online

http://quest.arc.nasa.gov/people/cfs/generic/engineer_106.pdf